

IN THE CLAIMS

Please amend claims 1-4, 6, 13, and 20 as follows:

1. (Currently Amended) A picked-up-sound reproducing method for picking up a sound present in a first sound field and reproducing the picked-up sound in a second sound field, said picked-up-sound reproducing method comprising:

detecting a sound pressure present in said first sound field and a sound pressure reproduced in said second sound field to produce a first detected sound pressure; and  
detecting a sound pressure with which the sound present in said first sound field picked up in said first sound field and reproduced in said second sound field is picked up in said second sound field to produce a second detected sound pressure;

adjusting a sound pressure to be reproduced in said second sound field such that the sound pressure present in said first sound field and the sound pressure to be reproduced in said second sound field assume a predetermined relationship by detecting a sound pressure difference between the first detected sound pressure and the second detected sound pressure, and equalizing an acoustical power in the first sound field received by an entire wall surface of the first sound field and an acoustical power radiated from a wall surface speaker in the second sound field such that the sound pressure difference is minimized, wherein the sound pressure present in said first sound field is used as a reference value in adjusting the sound pressure to be reproduced in said second sound field.

2. (Currently Amended) A picked-up-sound reproducing method for picking up a sound present in a first sound field at a position on a wall surface of said first sound field and reproducing the picked-up sound at a position on a wall surface in a second sound field, said picked-up-sound reproducing method comprising:

detecting a sound pressure picked up in said first sound field and a sound pressure reproduced in said second sound field to produce a first detected sound pressure;

detecting a sound pressure with which the sound present in said first sound field picked up in said first sound field and reproduced in said second sound field is picked up in said second sound field to produce a second detected sound pressure;

and

adjusting a sound pressure to be reproduced in said second sound field such that the sound pressure present in said first sound field and the sound pressure to be reproduced in said second sound field assume a predetermined relationship by detecting a difference between the first detected sound pressure and the second detected sound pressure, and equalizing an acoustical power in the first sound field received at the position on the entire wall surface of the first sound field and an acoustical power radiated from a speaker the wall surface in the second sound field, wherein the sound pressure picked up in said first sound field is used as a reference value in adjusting the sound pressure to be reproduced in said second sound field.

3. (Currently Amended) A picked-up-sound reproducing method for picking up a sound present in a first sound field to reproduce the picked-up sound in a second sound field and picking up a sound present in said second sound field to reproduce the picked-up sound in said first sound field, said picked-up-sound reproducing method comprising:

detecting a sound pressure present in said first sound field and a sound pressure reproduced in said second sound field to produce a first detected sound pressure, detecting a sound pressure with which the sound present in said first sound field picked up in said first sound field and reproduced in said second sound field is picked up in said second sound field to produce a second detected sound pressure, and adjusting a sound pressure to be reproduced in

said second sound field such that the sound pressure present in said first sound field and the sound pressure to be reproduced in said second sound field assume a predetermined relationship by detecting a first sound pressure difference between the first detected sound pressure and the second detected sound pressure and, equalizing an acoustical power in the first sound field received by an entire wall surface of the first sound field and an acoustical power radiated from a speaker the wall surface in the second sound field such that the first sound pressure difference is minimized, wherein the sound pressure present in said first sound field is used as a reference value in adjusting the sound pressure to be reproduced in said second sound field; and

detecting a sound pressure present in said second sound field and a sound pressure reproduced in said first sound field to produce a third detected sound pressure, detecting a sound pressure with which the sound present in said second sound field picked up in said second sound field and reproduced in said first sound field is picked up in said first sound field to produce a fourth detected sound pressure and adjusting a sound pressure to be reproduced in said first sound field such that the sound pressure picked up in said second sound field and the sound pressure to be reproduced in said first sound field assume a predetermined relationship by detecting a second sound pressure difference between the third detected sound pressure and the fourth detected sound pressure, and equalizing an acoustical power in the second sound field received by an entire wall surface of the second sound field and an acoustical power radiated from a speaker the wall surface in the first sound field such that the second sound pressure difference is minimized, wherein the sound pressure present in said second sound field is used as a reference value in adjusting the sound to be reproduced in said first sound field.

4. (Currently Amended) A picked-up-sound reproducing method for picking up a sound present in a first sound field at a position on a wall surface of said first sound field to reproduce

the picked-up sound at a position of a wall surface in a second sound field and picking up a sound present in said second sound field at a position on the wall surface of said second sound field to reproduce the picked-up sound at a position on the wall surface in said first sound field, said picked-up-sound reproducing method comprising:

detecting a sound pressure picked up in said first sound field and a sound pressure reproduced in said second sound field to produce a first detected sound pressure, detecting a sound pressure with which the sound present in said first sound field picked up in said first sound field and reproduced in said second sound field is picked up in said second sound field to produce a second detected sound pressure, and adjusting a sound pressure to be reproduced in said second sound field such that the sound pressure present in said first sound field and the sound pressure to be reproduced in said second sound field assume a predetermined relationship by detecting a first sound pressure difference between the first detected sound pressure and the second detected sound pressure, and equalizing an acoustical power in the first sound field received at the position on the wall surface of the first sound field and an acoustical power radiated from a speaker the wall surface in the second sound field such that the first sound pressure difference is minimized, wherein the sound pressure picked up in said first sound field is used as a reference value in adjusting the sound pressure to be reproduced in said second sound field; and

detecting a sound pressure picked up in said second sound field and a sound pressure reproduced in said first sound field to produce a third detected sound pressure, detecting a sound pressure with which the sound present in said second sound field picked up in said second sound field and reproduced in said first sound field is picked up in said first sound field to produce a fourth sound pressure difference, and adjusting a sound pressure to be reproduced in said first

sound field such that the sound pressure picked up in said second sound field and the sound pressure to be reproduced in said first sound field assume a predetermined relationship by detecting a second sound pressure difference between the third detected sound pressure and the fourth detected sound pressure, and equalizing an acoustical power in the second sound field received at the position on the wall surface of the second sound field and an acoustical power radiated from a speaker the wall surface in the first sound field such that the second sound pressure difference is minimized, wherein the sound pressure picked up in said second sound field is used as a reference value in adjusting the sound to be reproduced in said first sound field.

5. (Previously Presented) A picked-up-sound reproducing method as claimed in claim 3 wherein adjustment of the sound pressure to be reproduced in said first sound field and adjustment of the sound pressure to be reproduced in said second sound field is performed with a time difference therebetween, and wherein when the sound pressure to be reproduced in said first sound field is to be adjusted, operations for picking up a sound present in said first sound field to reproduce the picked-up sound in said second sound field are stopped, and when the sound pressure to be reproduced in said second sound field is to be adjusted, operations for picking up a sound present in said second sound field to reproduce the picked-up sound in said first sound field are stopped.

6. (Currently Amended) A picked-up-sound reproducing apparatus comprising:

- a first microphone that is provided at a position [[of]] on one wall surface of a first sound field to pick up a sound present in said first sound field;
- a signal transfer pathway that transmits the sound, picked up by said first microphone, to a second sound field;
- a speaker that is provided at a position [[of]] on one wall surface of a second sound field

to reproduce the sound transmitted via said signal transfer pathway;

a second microphone that is provided at a position [[of]] on the one wall surface of said second sound field to pick up the sound reproduced by said speaker;

a first detection section that detects a sound pressure picked up by said first microphone to produce a first detected sound pressure;

a second detection section that detects a sound pressure with which the sound picked up by said first microphone and reproduced by said speaker is picked up by said second microphone to produce a second detected sound pressure; and

an adjustment section that adjusts a sound pressure to be reproduced by said speaker such that the sound pressure present in said first sound field and the sound pressure to be reproduced in said second sound field assume a predetermined relationship by detecting a sound pressure difference between the first detected sound pressure and the second detected sound pressure, and equalizing an acoustical power in the first sound field received by the first microphone at the position of the one wall surface of the first sound field and an acoustical power radiated from a speaker in the second sound field such that the sound pressure difference is minimized, wherein the sound pressure detected by the first detection section and second detection section are used as reference values in adjusting the sound pressure to be reproduced by said speaker.

7. (Original) A picked-up-sound reproducing apparatus as claimed in claim 6 wherein a plurality of said picked-up-sound reproducing apparatus are provided between said first sound field and said second sound field to provide a plurality of processing channels, and each of said processing channels includes said second microphone and said speaker positioned close to each other, and wherein said second microphones and said speakers of individual ones of the processing channels in said second sound field are arranged in corresponding relation to

arrangement of said first microphones of the individual processing channels in said first sound field.

8. (Original) A picked-up-sound reproducing apparatus as claimed in claim 7 wherein said adjustment section adjusts the sound pressure to be reproduced by said speaker so that a value obtained by modifying the sound pressure, detected by said first detection section or said second detection section, in accordance with a value determined by dividing an area of the one wall surface of said second sound field by a total number of the processing channels equals a value of the sound pressure detected by said second detection section or said first detection section.

9. (Original) A picked-up-sound reproducing apparatus as claimed in claim 7 wherein said first microphones of the individual processing channels are arranged in said first sound field in a linear or planar configuration, and said second microphones and speakers of the individual processing channels are arranged in said second sound field in a linear or planar configuration.

10. (Previously Presented) A picked-up-sound reproducing apparatus as claimed in claim 7 wherein said first sound field and said second sound field are separated by a window in the form of a transparent plate member, and wherein said second microphones and speakers of the individual processing channels are arranged in said second sound field in a linear configuration along either or both of upper and lower edges of said window, and said first microphones of the individual processing channels are arranged in said first sound field in a linear configuration along either or both of the upper and lower edges of said window.

11. (Original) A picked-up-sound reproducing apparatus as claimed in claim 6 wherein said speaker and said second microphone to be combined with said speaker are together incorporated in a speaker box in substantially parallel, side-by-side adjoining relation to each other.

12. (Original) A picked-up-sound reproducing apparatus as claimed in claim 6 wherein the

sound picked up by said first microphone is transmitted, with a gain of 1, to said second sound field via said signal transfer pathway, and said first detection section detects a sound pressure from a sound signal transmitted to said second sound field via said signal transfer pathway.

13. (Currently Amended) A picked-up-sound reproducing apparatus comprising:

a first microphone that is provided at a position of one wall surface of a first sound field to pick up a sound present in said first sound field;

a first signal transfer pathway that transmits the sound, picked up by said first microphone, to a second sound field;

a second sound field speaker that is provided at a position of one wall surface of said second sound field to reproduce the sound transmitted via said first signal transfer pathway;

a second microphone that is provided at a position of the one wall surface of said second sound field to pick up a sound present in said second sound field;

a second signal transfer pathway that transmits the sound, picked up by said second microphone, to said first sound field;

a first sound field speaker that is provided at a position of the one wall surface of said first sound field to reproduce the sound transmitted via said second signal transfer pathway;

a first detection section that detects a sound pressure present in said first sound field picked up by said first microphone to produce a first detected sound pressure;

a second detection section that detects a sound pressure with which the sound present in said first sound field picked up by said first microphone and reproduced by said second sound field speaker is picked up by said second microphone to produce a second detected sound pressure;

a first adjustment section that adjusts a sound pressure to be reproduced by said second

sound field speaker such that the sound pressure detected by said first detection section and the sound pressure detected by said second detection section assume a predetermined relationship by detecting a first sound pressure difference between the first detected sound pressure and the second detected sound pressure, and equalizing an acoustical power in the first sound field received by the first microphone at the position of the one wall surface of the first sound field and an acoustical power radiated from the second sound field speaker such that the first sound pressure difference is minimized, wherein the first detected sound pressure and the second detected sound pressure ~~sound pressures detected by said first detection section and said second detection section~~ are used as a reference values in adjusting the sound pressure to be reproduced by said second sound field speaker;

a third detection section that detects a sound pressure present in said second sound field picked up by said second microphone to produce a third detected sound pressure;

a fourth detection section that detects a sound pressure with which the sound present in said second sound field picked up by said second microphone and reproduced by said first sound field speaker is picked up by said first microphone to produce a fourth detected sound pressure; and

a second adjustment section that adjusts a sound pressure to be reproduced by said first sound field speaker such that the sound pressure detected by said third detection section and the sound pressure detected by said fourth detection section assume a predetermined relationship by detecting a second sound pressure difference between the third detected sound pressure and the fourth detected sound pressure, and equalizing an acoustical power in the second sound field received by the second microphone at the position of the one wall surface of the second sound field and an acoustical power radiated from the first sound field speaker such that the second

sound pressure difference is minimized, wherein the third detected sound pressure and the fourth detected sound pressure the sound pressures detected by said first detection section and said second detection section are used as a reference values in adjusting the sound pressure to be reproduced by said second sound field speaker and said first sound field speaker.

14. (Previously Presented) A picked-up-sound reproducing apparatus as claimed in claim 13 wherein a plurality of said picked-up-sound reproducing apparatus are provided between said first sound field and said second sound field to provide a plurality of processing channels, and each of said processing channels includes said first microphone and first sound field speaker positioned close to each other and said second microphone and second sound field speaker positioned close to each other, and wherein said second microphones and second-sound-field speaker speakers of individual ones of the processing channels in said second sound field are arranged in horizontal symmetrical relation to arrangement of said first microphones and first sound field speaker speakers of the individual processing channels in said first sound field.

15. (Previously Presented) A picked-up-sound reproducing apparatus as claimed in claim 14 wherein said first adjustment section adjusts the sound pressure to be reproduced by said second sound field speaker so that a value obtained by modifying the sound pressure, detected by said first detection section or said second detection section, in accordance with a value determined by dividing an area of the one wall surface of said second sound field by a total number of the processing channels equals a value of the sound pressure detected by said second detection section or said first detection section, and

wherein said second adjustment section adjusts the sound pressure to be reproduced by said first sound field speaker so that a value obtained by modifying the sound pressure, detected by said second detection section or said first detection section, in accordance with a value

determined by dividing an area of the one wall surface of said first sound field by a total number of the processing channels equals a value of the sound pressure detected by said first detection section or said second detection section.

16. (Original) A picked-up-sound reproducing apparatus as claimed in claim 14 wherein said microphones and speakers of the individual processing channels are arranged in said first sound field and said second sound field in a linear or planar configuration.

17. (Previously Presented) A picked-up-sound reproducing apparatus comprising:

- a first microphone that is provided at a position of one wall surface of a first sound field to pick up a sound present in said first sound field;
- a first signal transfer pathway that transmits the sound, picked up by said first microphone, to a second sound field;
- a second sound field speaker that is provided at a position of one wall surface of said second sound field to reproduce the sound transmitted via said first signal transfer pathway;
- a second microphone that is provided at a position of the one wall surface of said second sound field to pick up a sound present in said second sound field;
- a second signal transfer pathway that transmits the sound, picked up by said second microphone, to said first sound field;
- a first sound field speaker that is provided at a position of the one wall surface of said first sound field to reproduce the sound transmitted via said second signal transfer pathway;
- a first detection section that detects a sound present in said first sound field picked up by said first microphone;
- a second detection section that detects a sound pressure with which the sound present in said first sound field picked up by said first microphone and reproduced by said second sound

field speaker is picked up by said second microphone;

a first adjustment section that adjusts a sound pressure to be reproduced by said second sound field speaker in such a manner that the sound pressures detected by said first detection section and said second detection section assume a predetermined relationship;

a third detection section that detects a sound pressure present in said second sound field picked up by said second microphone;

a fourth detection section that detects a sound pressure with which the sound present in said second sound field picked up by said second microphone and reproduced by said first sound field speaker is picked up by said first microphone; and

a second adjustment section that adjusts a sound pressure to be reproduced by said first sound field speaker in such a manner that the sound pressures detected by said third detection section and said fourth detection section assume a predetermined relationship,

wherein a plurality of said picked-up-sound reproducing apparatus are provided between said first sound field and said second sound field to provide a plurality of processing channels,

each of said processing channels includes said first microphone and first sound field speaker positioned close to each other and said second microphone and second sound field speaker positioned close to each other,

said second microphones and second sound field speaker speakers of each processing channel of the plurality of processing channels in said second sound field are arranged in a horizontally symmetrical relation to an arrangement of said first microphones and first-sound-field speaker speakers of each processing channel of the plurality of processing channels in said first sound field,

said microphones and speakers of the individual processing channels are arranged in said

first sound field and said second sound field in a linear or planar configuration, and wherein, in each of said first sound field and said second sound field, a TV camera is provided generally in a center of the arrangement of said microphones and speakers of the individual processing channels, a sound-transmissive screen is disposed on a front surface of the arrangement of said microphones, speakers and TV camera, said screen has a window formed in a position thereof corresponding to a position of said TV camera, and a video projector is disposed in front of said screen above or below said screen,

an image, representative of a scene in front of said screen, picked up by said TV camera in said first sound field is transmitted, via a transfer pathway, to said second sound field so that the image is projected onto said screen by said video projector in said second sound field, and an image, representative of a scene in front of said screen, picked up by said TV camera in said second sound field is transmitted, via the transfer pathway, to said first sound field so that the image is projected onto said screen by said video projector in said first sound field.

18. (Previously Presented) A picked-up-sound reproducing apparatus as claimed in claim 13 wherein said first sound field speaker and said first microphone to be combined with said first sound field speaker are together incorporated in a speaker box in substantially parallel, side-by-side adjoining relation to each other, and said second sound field speaker and said second microphone to be combined with said second-sound-field speaker are together incorporated in a speaker box in substantially parallel, side-by-side adjoining relation to each other.

19. (Original) A picked-up-sound reproducing apparatus as claimed in claim 13 wherein the sound picked up by said first microphone is transmitted, with a gain of 1, to said second sound field via said first signal transfer pathway and the sound picked up by said second microphone is transmitted, with a gain of 1, to said first sound field via said second signal transfer pathway, and

wherein said first detection section detects a sound pressure present in said first sound field from a sound signal transmitted to said second sound field via said first signal transfer pathway and said third detection section detects a sound pressure present in said second sound field from a sound signal transmitted to said first sound field via said second signal transfer pathway.

20. (Currently Amended) A picked-up-sound reproducing apparatus as claimed in claim 13 further including comprising:

a first echo canceler that removes, from a sound signal picked up by said first microphone, a sound component reproduced by said first sound field speaker; and  
a second echo canceler that removes, from a sound signal picked up by said second microphone, a sound component reproduced by said second sound field speaker.

21. (Original) A picked-up-sound reproducing apparatus as claimed in claim 6 wherein, in each of said sound fields having said microphone and speaker, a sound-absorbing material is disposed around or in front of said microphone and speaker.

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